



U.S. Food and Drug Administration

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Drug Development in the 21st Century: The Role of OND

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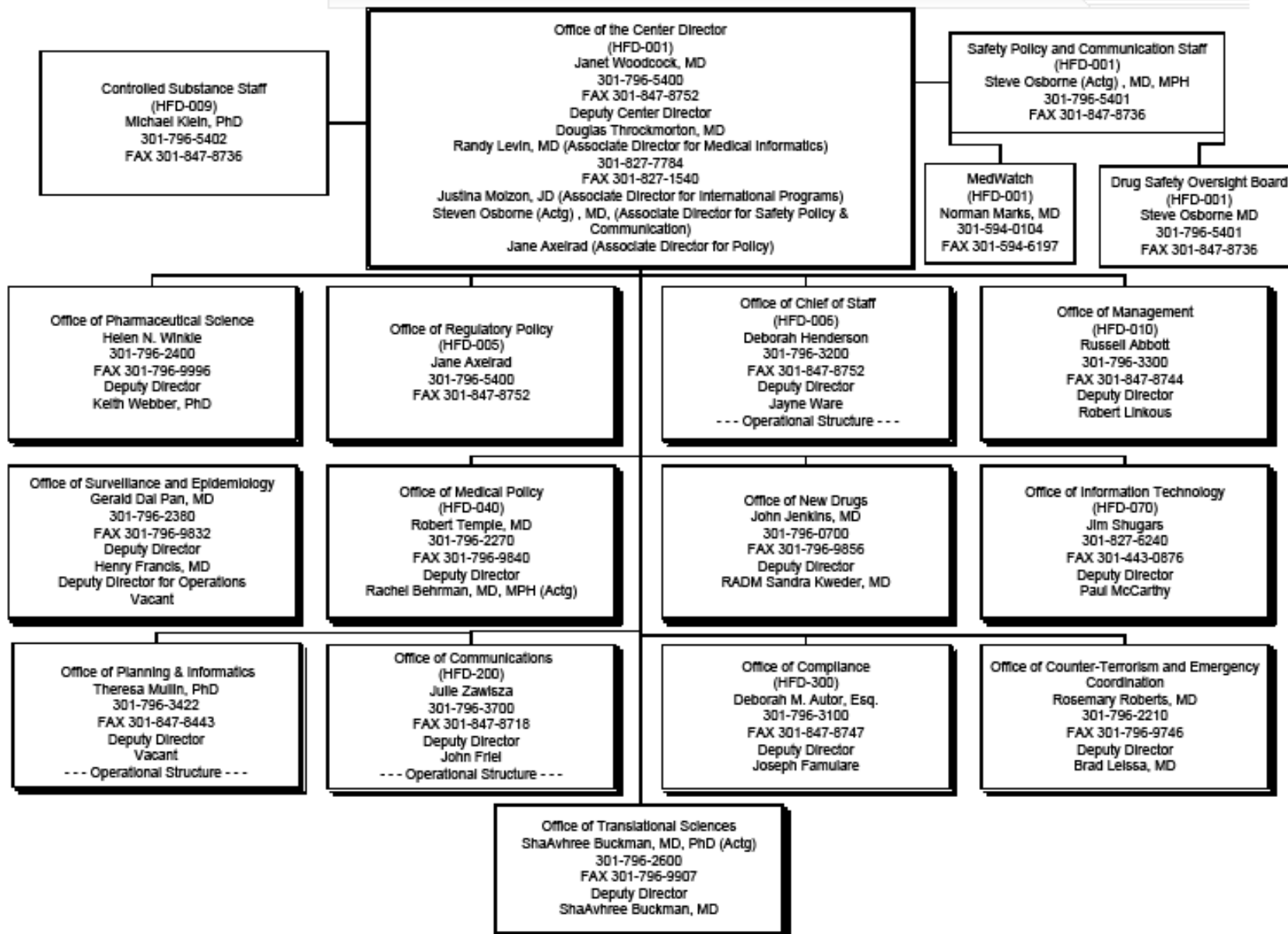


Topics for discussion

- CDER's and OND's organizational structures
- Phases of Drug Development
- OND's role in the review process
- OND's interactions with regulated industry
- 21st Century Review Process
- OND-led programs and initiatives

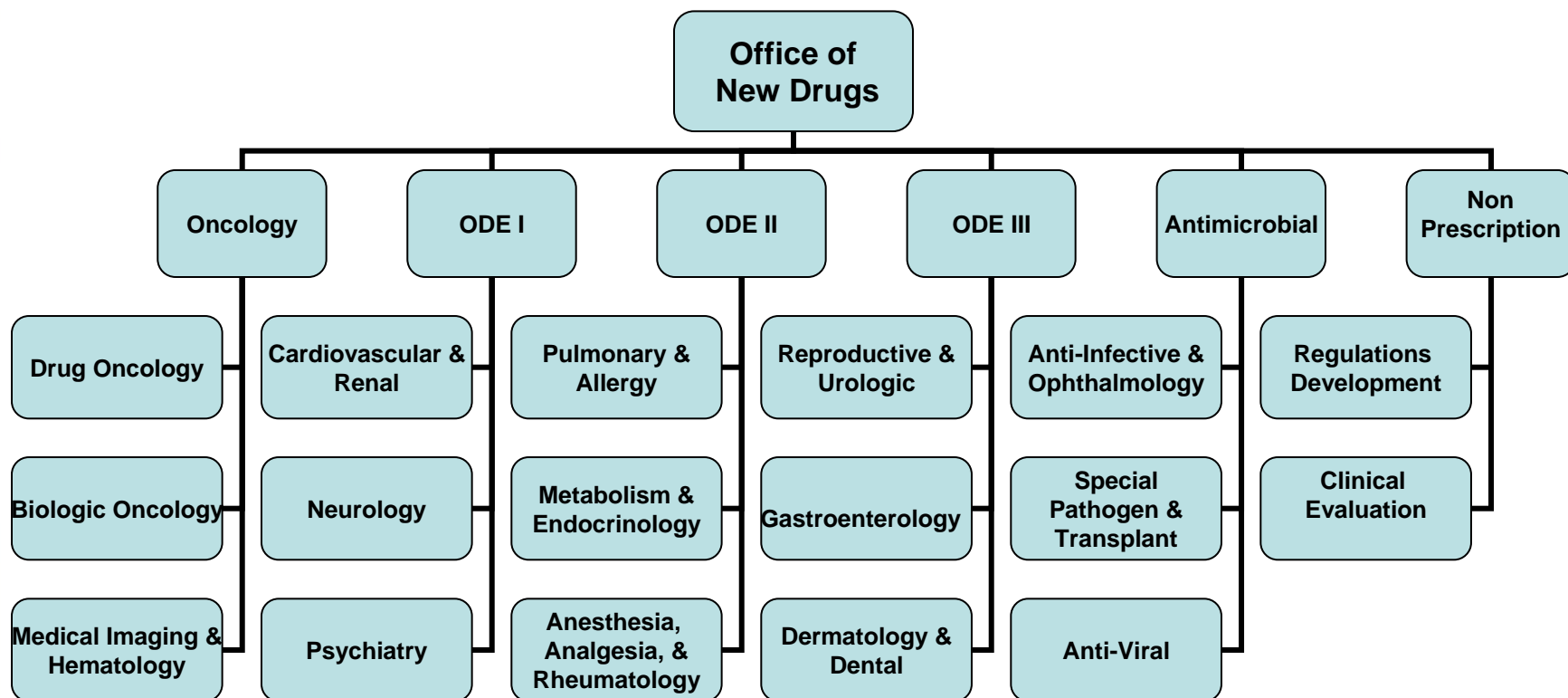
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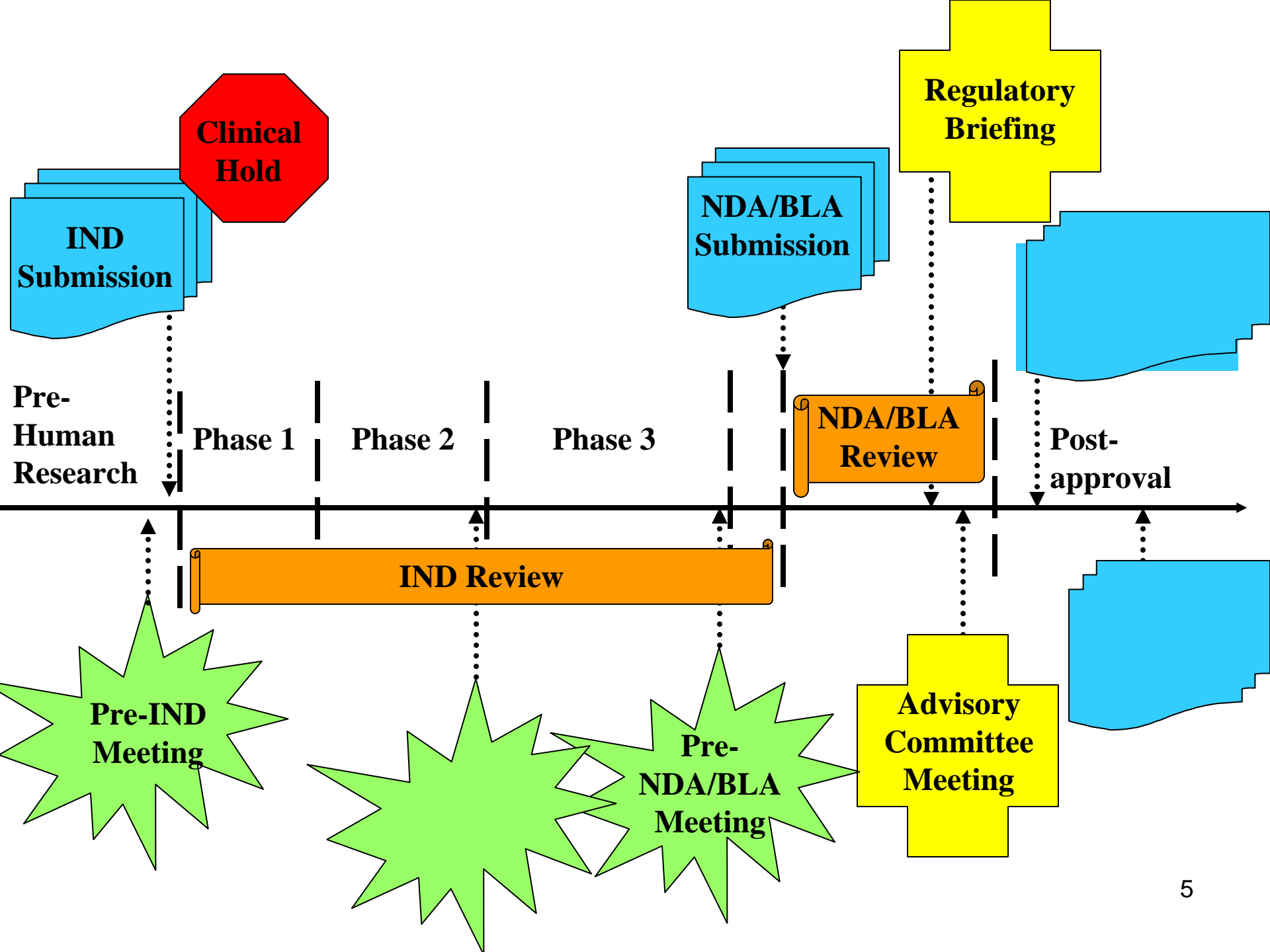
March 5th 2009





Office of New Drugs (OND)







Scientific Review Team

- *Clinical** (M.D.)
- *Pharmacology/Toxicology** (Ph.D.)
- *Regulatory Project Management** (R.N., Pharm.D., B.S.)
- *Chemistry* (Ph.D.)
- *Clinical Pharmacology* (Ph.D., Pharm.D.)
- *Statistics* (Ph.D.)

* OND staff



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The role of OND in the review process

- Provide advice and guidance to regulated industry during drug development
- Signatory authority for regulatory decisions related to new (i.e., not generic) drugs
 - Working in conjunction with the other offices within CDER
- Establish policy and procedures governing the above



Interactions with regulated industry

Why are interactions important?

*Communication between
the Agency and industry
facilitates a common goal –
more efficient drug development.*





Procedures for meetings

- Meetings can be requested by industry or by FDA
- Meeting requests from industry should be submitted in writing
- Relevant background in the written request
 - ***Guidance for Industry, Formal Meetings with Sponsors and Applicants for PDUFA Products***



Procedures for meetings (cont.)

- CDER will respond to a written meeting request (granted/denied)
- Meeting Types:
 - Type A: stalled drug development program
 - Goal: 14-days to respond (granted/denied)
 - Type B: “milestone meetings” (pre-IND, end of Phase 1, end of Phase 2/pre-Phase 3, pre-NDA/BLA)
 - Goal: 21-days to respond (granted/denied)
 - Type C: all others
 - Goal: 21-days to respond (granted/denied)



Procedures for meetings (cont.)

- Meetings are scheduled to be held within a set number of days from receipt of the meeting request based on meeting type
 - Type A: 30 days
 - Type B: 60 days
 - Type C: 75 days



Procedures for meetings (cont.)

- Background packages are due 2 weeks prior to a Type A meeting, 1 month prior to Type B or C meetings
- Background package content needs to support intended objectives
- Internal CDER pre-meeting ideally 2-7 days prior to the meeting



Procedures for meetings (cont.)

- Draft/preliminary responses to questions submitted in background package sent 24-48 hours before meeting
- CDER will generate meeting minutes within 30 days of the meeting
 - CDER version is the official version: industry is advised to submit disagreements in writing
 - Minutes are not transcripts of the meeting but contain discussion summaries, decisions, and action items



Other interactions

- Written advice, including special protocol assessments, during development
- Labeling, risk management, postmarketing requirement/commitment discussions during application review
- Advisory Committee meetings
- Workshops and public dialogues on policy development (e.g., adaptive trial design)



21st Century Review

- Operationalize Good Review Management Practices and Principles (GRMPP) Guidance (2005)

"The goal of the 21st Century Review is to make the new drug review process more organized, with a more integrated level of management that allows sufficient time at the end of the process to be sure all concerns have been heard and addressed by the decision makers. To help achieve this goal, members of the review team should plan to begin their review as soon as an application comes in the door."

- Janet Woodcock





21st Century Review

- Pilot program in FY 08 to refine the process, one application per OND division
- The new process is a CDER process; all disciplines are expected to follow it for all applications and supplements
- Timelines for this process are being implemented as follows:
 - Original BLA and NME NDAs beginning FY09
 - Efficacy supplements for new or expanded indications beginning FY10
 - All BLAs and NDAs beginning FY11
 - All efficacy supplements beginning FY12



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Major Changes in Process

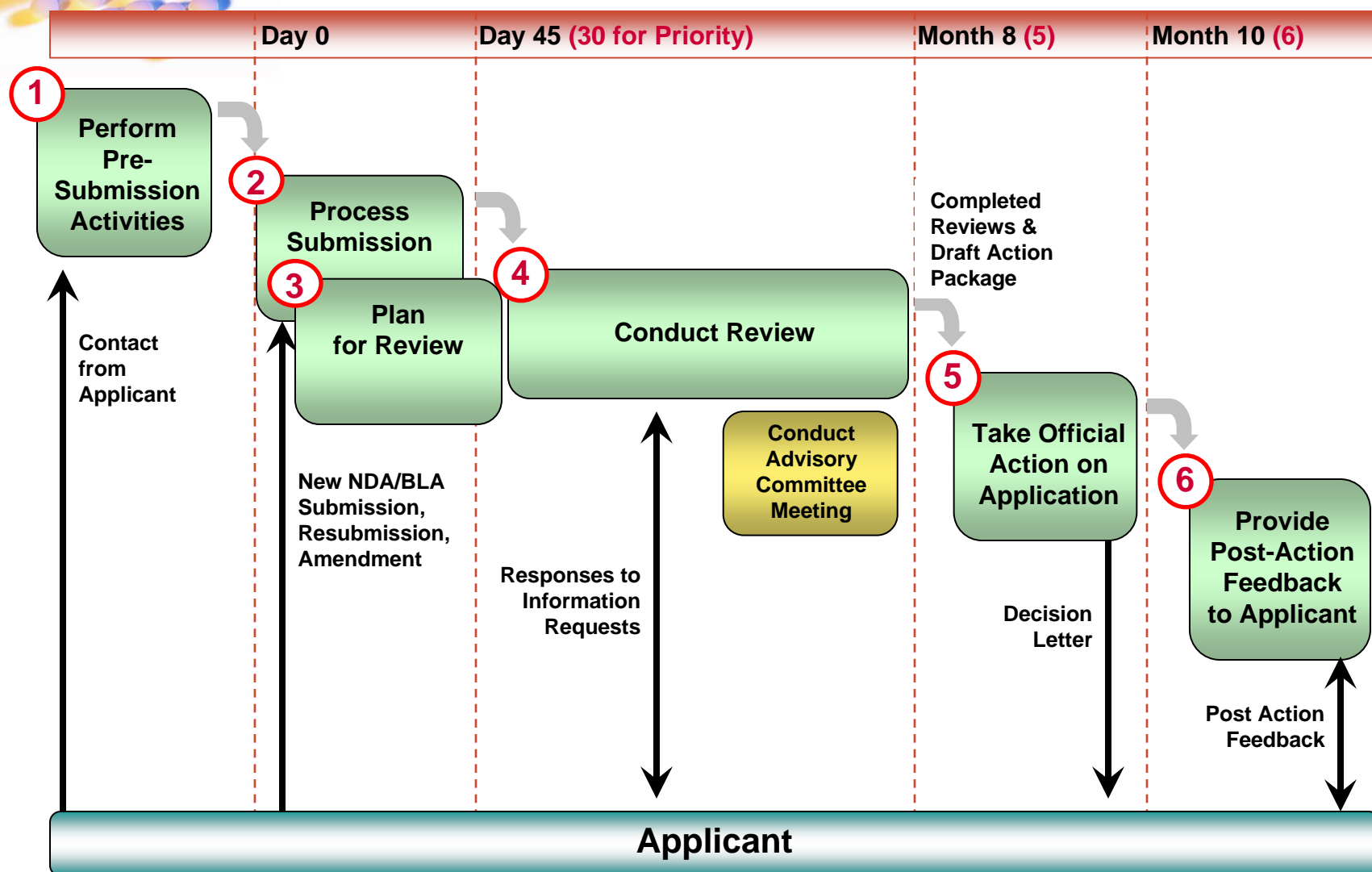
- Optimal teamwork and collaboration across disciplines – to fully exemplify Equal Voice
- Upfront planning with clearly identified expectations
- New pre-submission and post-action activities to educate sponsors and help FDA plan for the review
- Better management of the process
 - Identify and address showstoppers early
 - Defined roles, responsibilities for managing the review
 - Increased interaction between disciplines
 - Structured timeline for review



Roles and Responsibilities

- Primary Reviewer – each discipline
- Team Leader – Secondary Reviewer
- Cross-Discipline Team Leader (CDTL)
- Regulatory Project Manager
- OND Division Directors
- Signatory Authority
- Discipline-specific Management

The New 6-Step Process

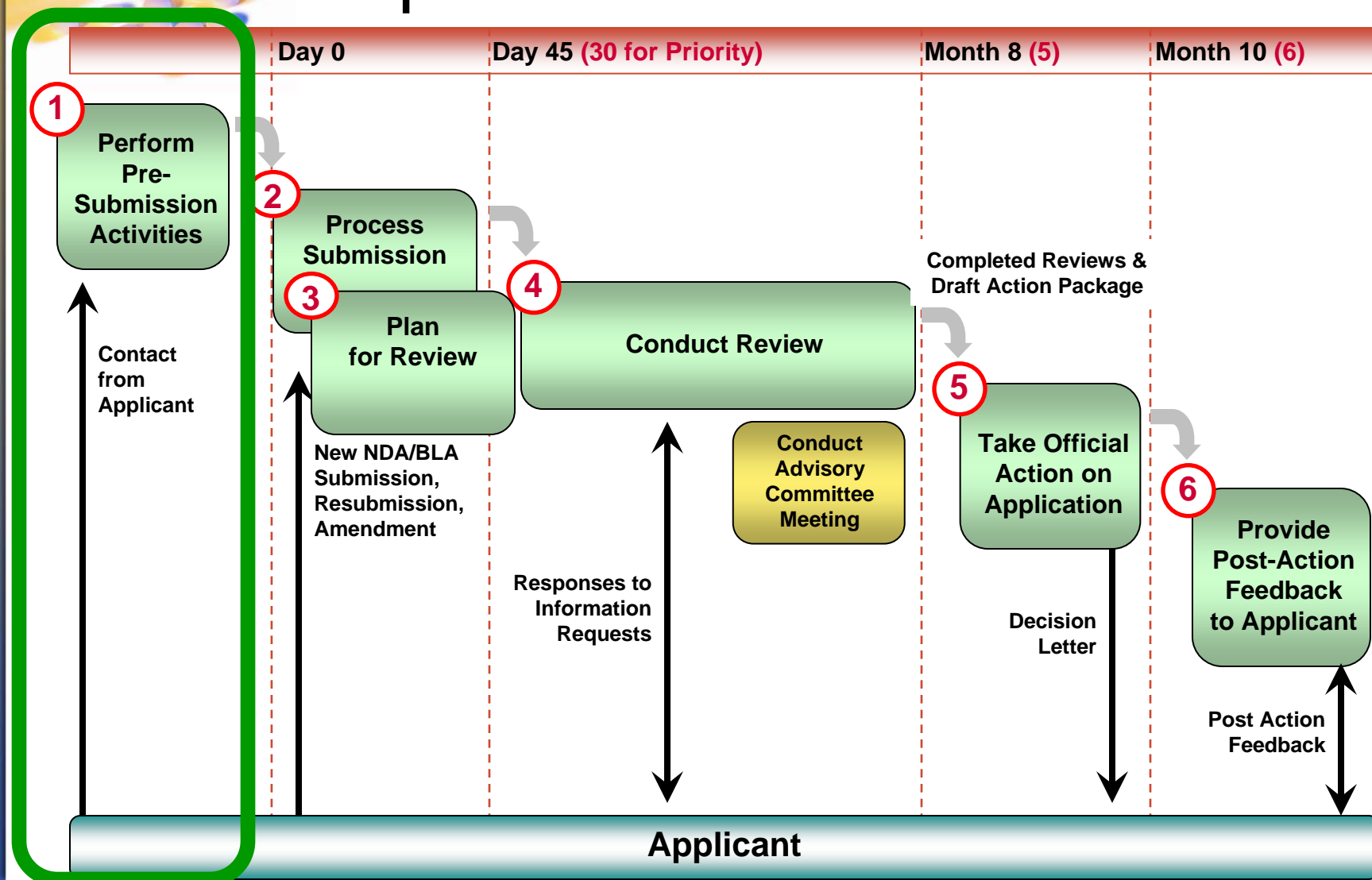


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Step 1: Pre-Submission Activities



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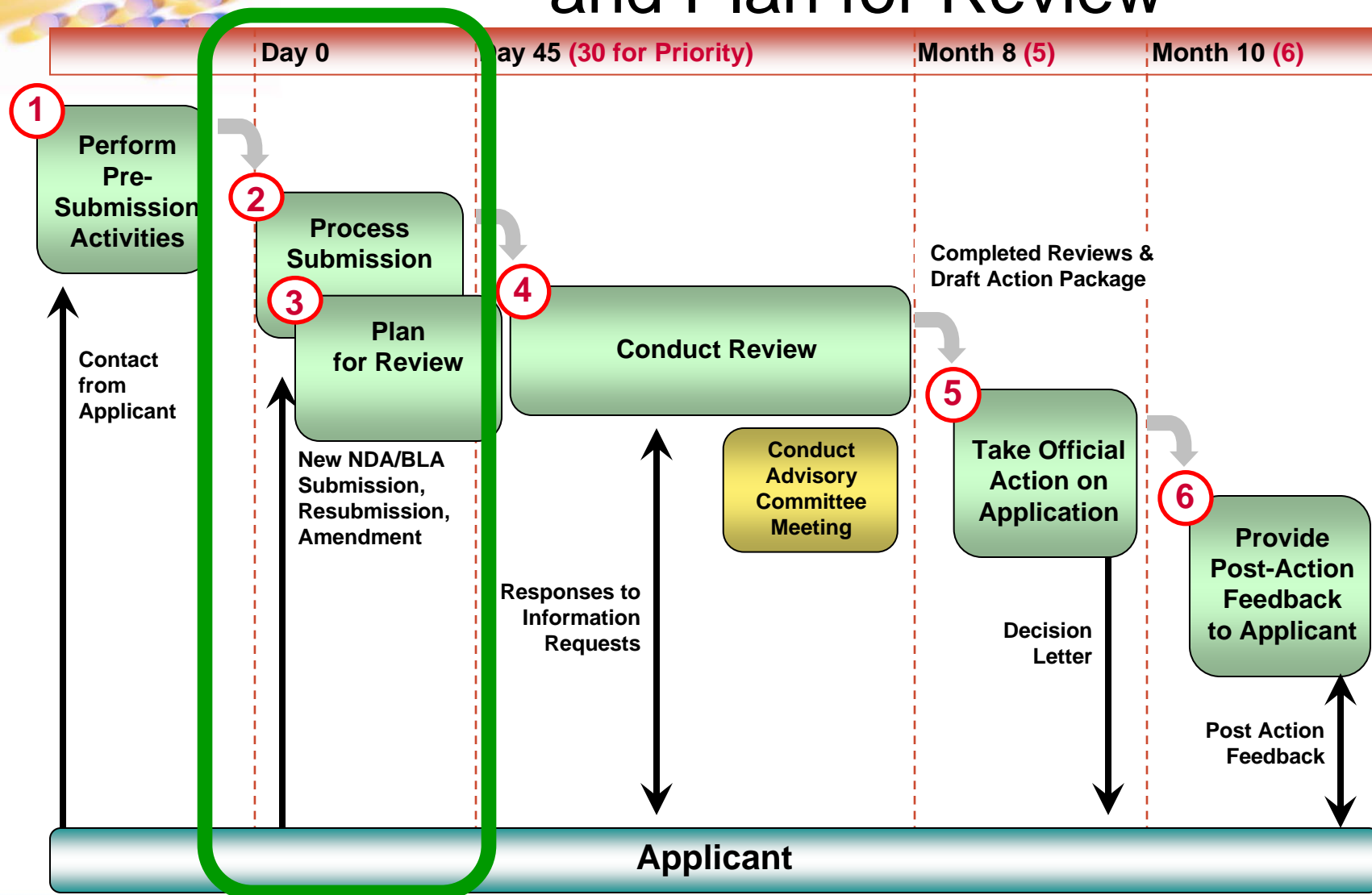




Step 1 - Highlights

- Pre-NDA/BLA meetings
 - Discuss content/format of application
 - Discuss need for AC meeting
 - Discuss potential REMS and PM surveillance
- Pre-electronic submission meeting
 - Test technology – navigation, formatting, location of datasets
 - Held within 30-60 days of anticipated submission

Steps 2 & 3: Process Submission and Plan for Review



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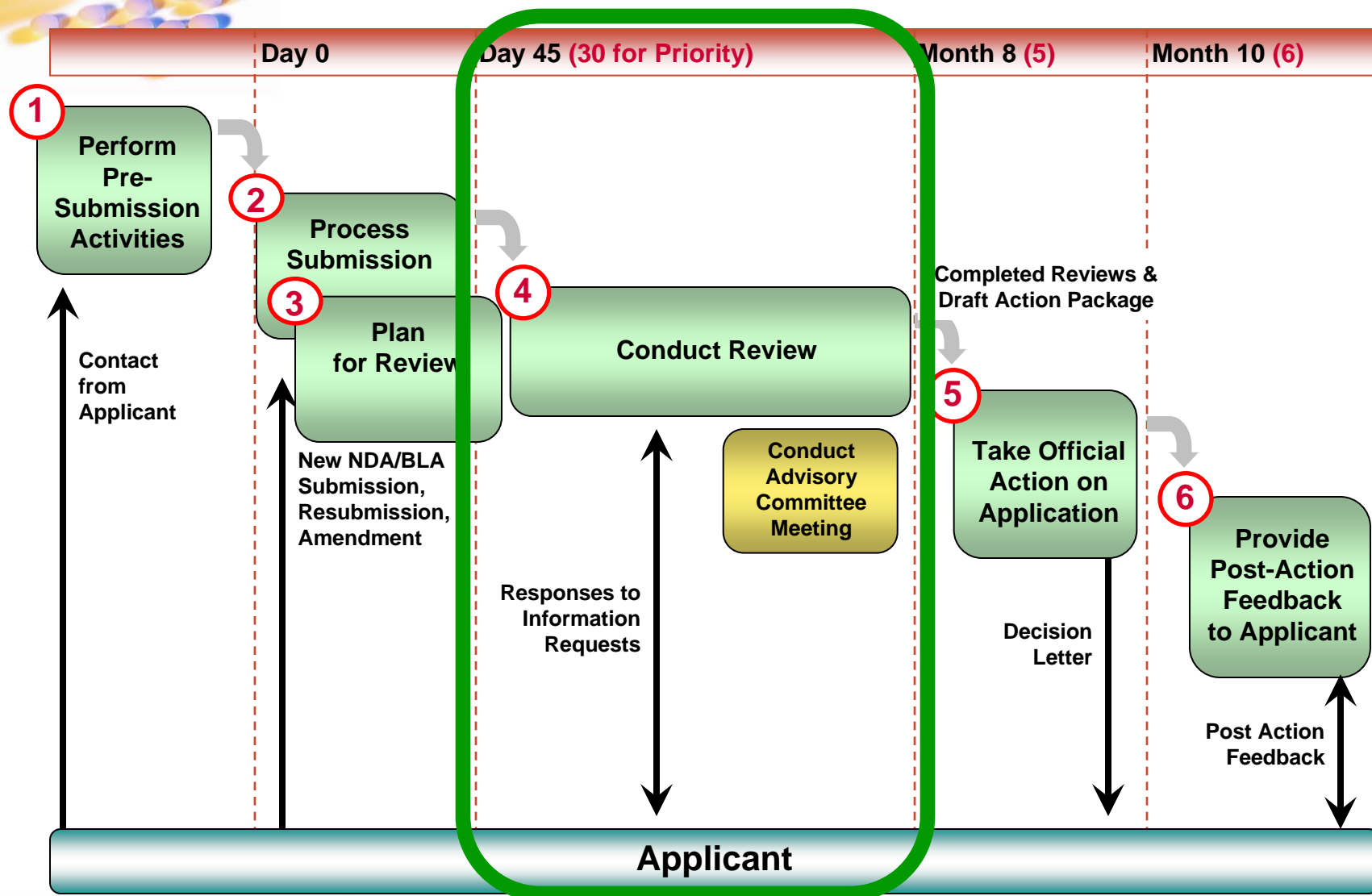




Step 2/3 - Highlights

- Review team members assigned
 - CDTL appointed
- Priority/standard review decision (by day 14)
- Conduct filing review using discipline-specific checklists/templates
- Filing meeting (by day 45 (S), day 30 (P))
 - Labeling review for high-level issues
 - Identify RTF issues, if any
- Communicate filing deficiencies and review timeline via 74-day letter

Step 4: Conduct the Review



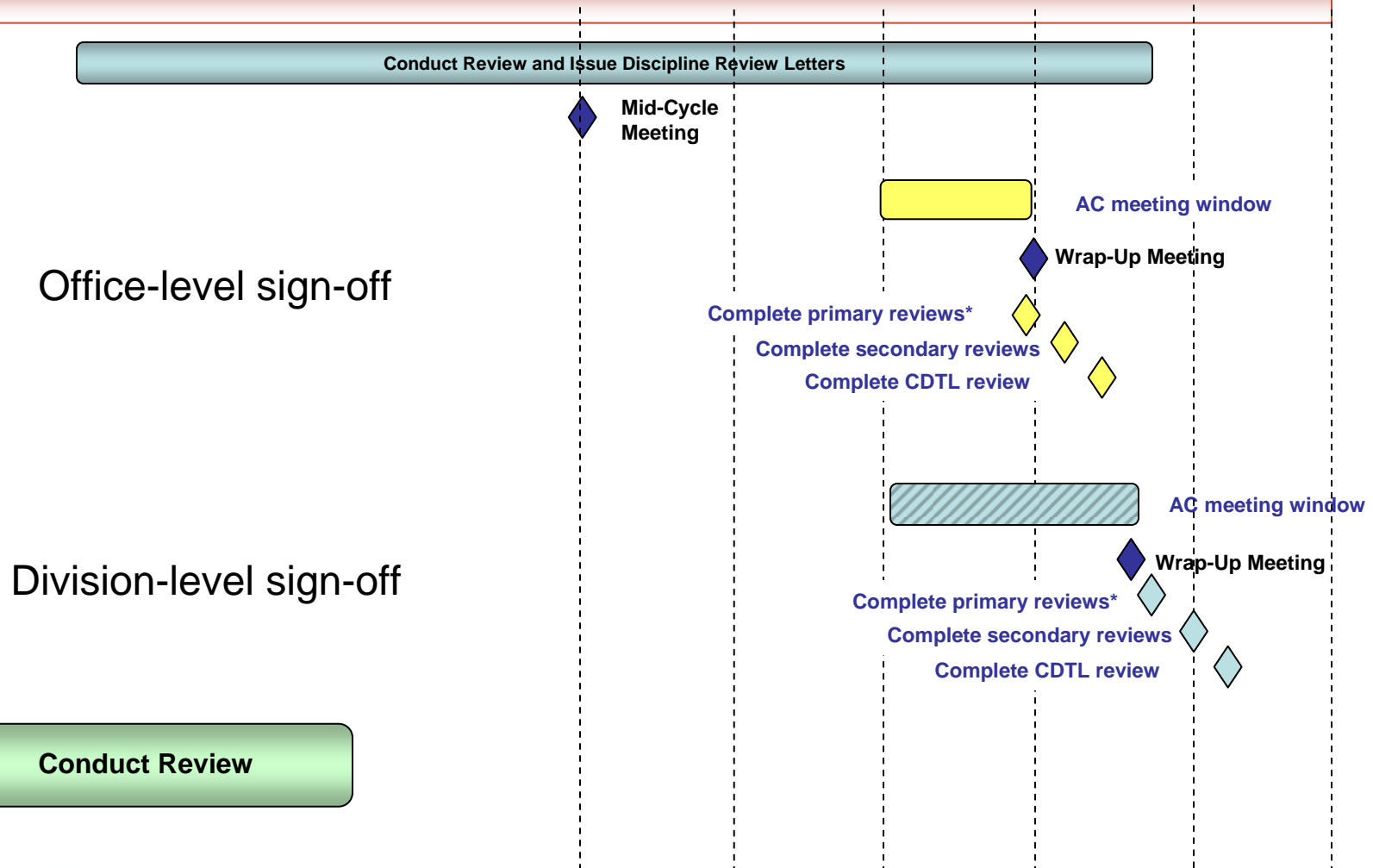
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Step 4: Conduct Review

Complete 1°, 2°, and CDTL Reviews

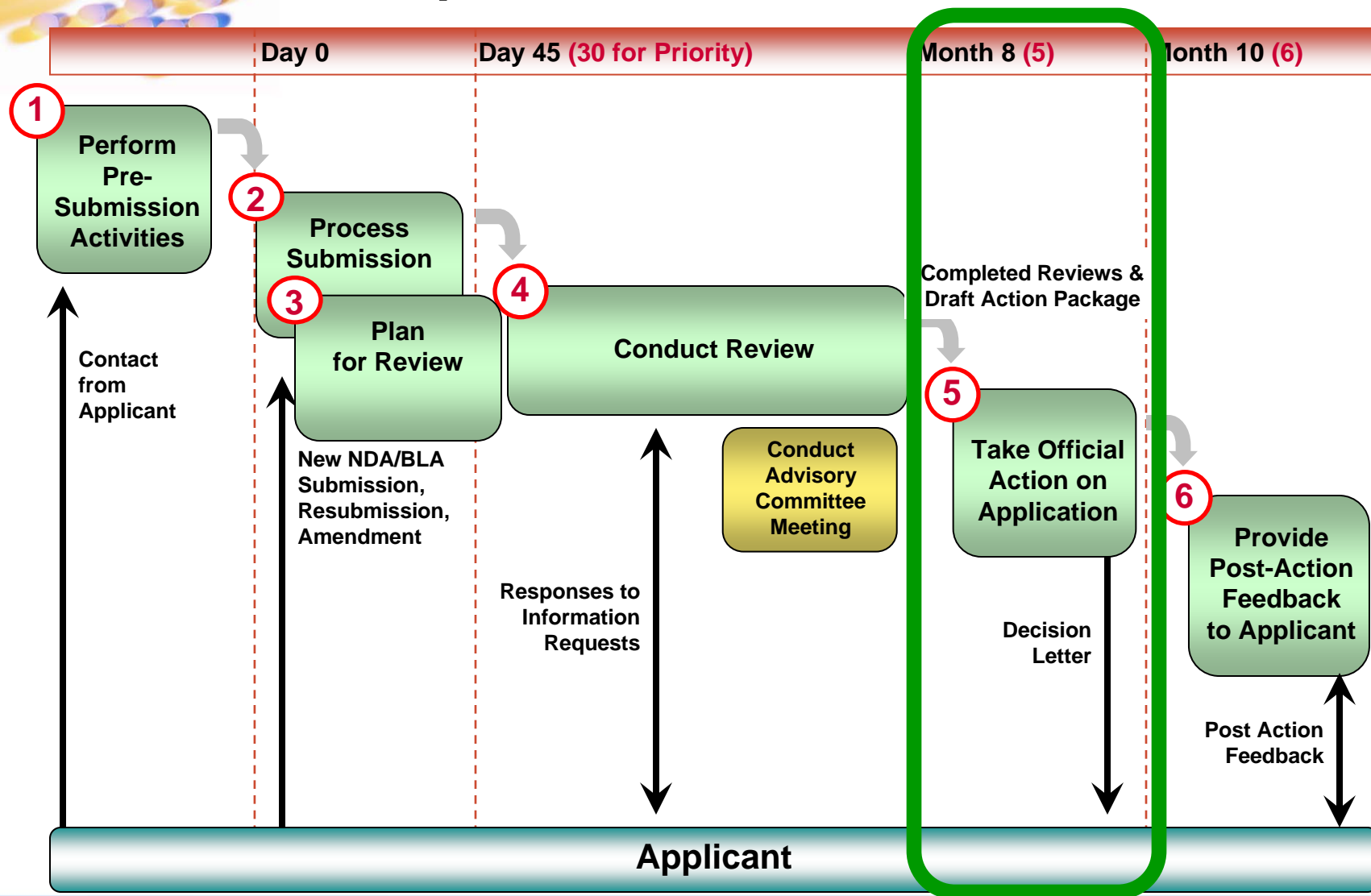




Step 4 - Highlights

- Primary reviewers consult with fellow team members and team leaders
- Mid-cycle meeting (mo 5 (S), mo 3 (P))
- Communicate deficiencies to applicant
- Complete 1^o, 2^o, and CDTL reviews
- Advisory Committee Meetings (by mo 8 (S), mo 5 (P))
- Initiate internal labeling, PMR/PMC discussions

Step 5: Take Official Action



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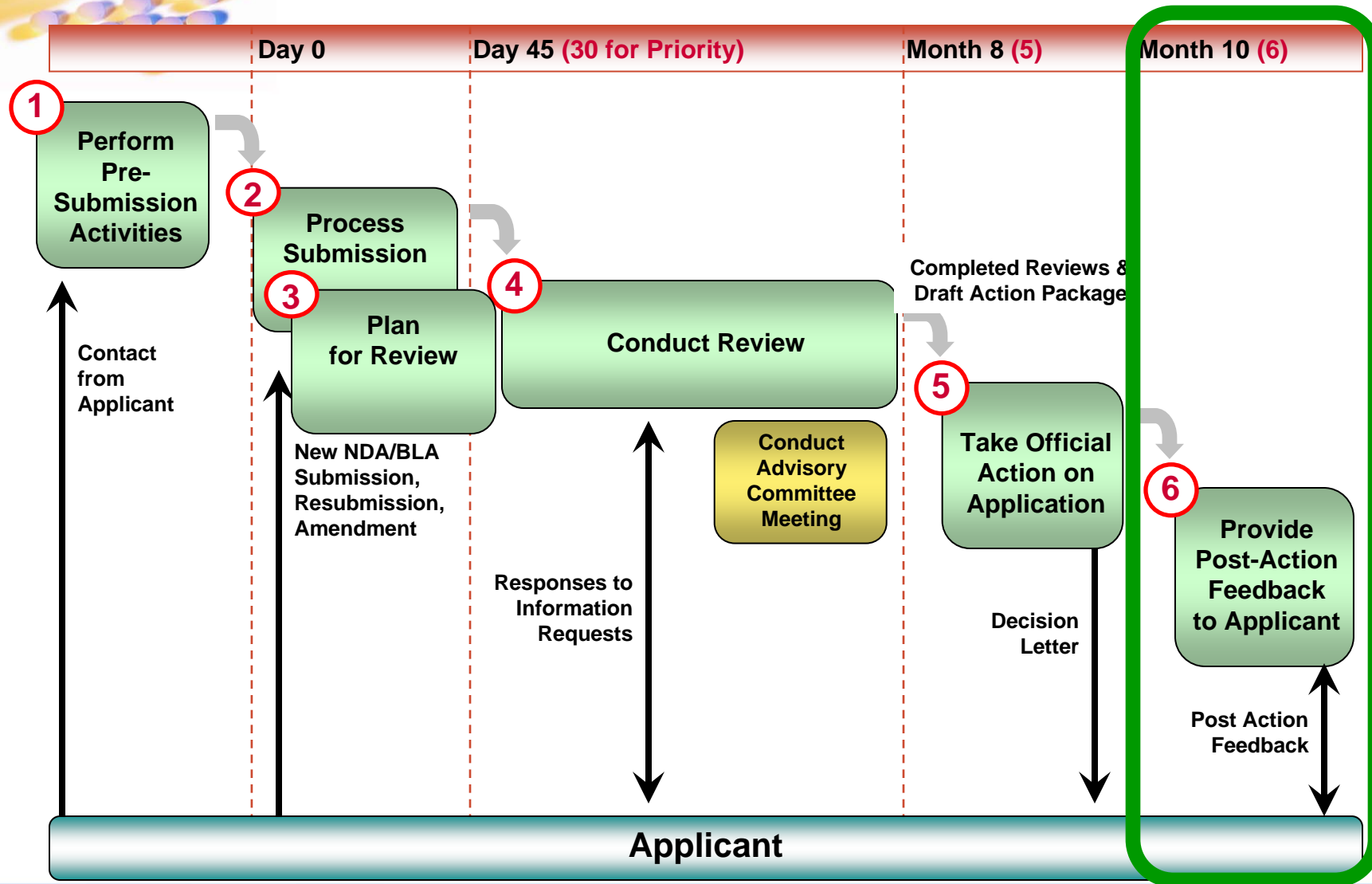




Step 5 - Highlights

- Wrap-up meeting (end of mo 8 (S), mo 5 (P))
 - Reviewers present outstanding issues
 - More detailed labeling discussion
 - Safety issues
 - PMRs/PMCs
- Completion of reviews (CDTL and Div/ODE Dir memos)

Step 6: Post-Action Feedback





Step 6 - Highlights

- Lessons-learned feedback meeting
 - Held for all NMEs
 - Invite applicants
 - Quality checklists



21st Century Review: Summary Points

- Start planning, review, and collaboration early
 - Applications are to be “complete” when submitted
 - Think about need for AC, known PMR/PMCs, REMS at pre-submission. Discuss high-level labeling issues at filing
 - Plan both team and individual reviews, including interim deliverables
- Team works internally on labeling, PMRs/PMCs, & REMS during 4 weeks before 1^o review completion
- Key meetings (filing/planning, mid-cycle, wrap-up, feedback) are part of a structured process to facilitate management input and minimize last minute issues & problems
- Feedback at the end:
 - Signatory Authority explains basis of decision
 - Review Team debriefs with applicant regarding the application quality and review process



OND-led programs and initiatives

- Guidance and Policy
- Pediatric and Maternal Health
- Pharmacology/Toxicology
- Regulatory Affairs
- Study Endpoints and Label Development



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Guidance and Policy Team

- Aid in the development and implementation of review policies and procedures within OND to ensure a clear, consistent, efficient, and standardized new drug review process (including development, review and clearance)
- Oversight of PDUFA-mandated activities
- Facilitation of OND-jurisdictional matters



Pediatric and Maternal Health Staff

- Implementation of pediatric and maternal health policy and procedures designed to promote the study of drug and biological products in the pediatric population and improve pregnancy and lactation-related information in product labeling
- Consultative services to OND, CDER and FDA



Pharmacology/Toxicology

- Pharmacology and Toxicology reviewers evaluate nonclinical data to aid in:
 - Selecting safe starting and stopping doses for “first in man” clinical trials
 - Identifying potential toxicities that should be monitored in the clinic
 - Assessing toxicities that cannot be addressed in clinical trials such as potential for carcinogenicity, teratogenicity, mutagenicity and chronic toxicity



Regulatory Affairs Team

- Provide regulatory and project management support to the Office of New Drugs, Immediate Office, and to lead various OND and Center-wide initiatives
 - Postmarketing Requirement/Commitment Program (PMR/PMC)
 - Formal Dispute Resolution (FDR)
 - 505(b)(2) applications
 - Biologics expertise



Study Endpoints and Label Development Team

- Oversees quality initiatives and provides expert consultative services in labeling development:
 - Physician's Labeling Rule (PLR)
 - Structured Product Labeling (SPL)
- ...and study endpoints:
 - Patient reported outcomes (PRO)



Other initiatives

- Postmarketing safety
 - FDAAA implementation
 - Safety First/Safe Use initiatives
 - Associate Directors for Safety and Safety Regulatory Project Managers roles within each division to coordinate activities



Contact Information

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April 20, 2009

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39



Questions?

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